



Official Publication of
the Society of Nuclear Medicine

SNM NEWSLINE

- 11N** Lines from the President
- 12N** Decade of the Brain: Nuclear Medicine Contributions
Deborah Kotz
- 21N** Public Affairs Update
William Uffelman and Amanda Sullivan

EDITORIAL

- 1** Nuclear Medicine in the New Millennium
Michael E. Phelps and R. Edward Coleman

CLINICAL INVESTIGATIONS

- 5** Clinical Application of ^{201}Tl SPECT Imaging of Brain Tumors
Da Sun, Qichang Liu, Weiguo Liu, and Weiwei Hu
- 11** Effect of Mental Stress on Myocardial Blood Flow and Vasomotion in Patients with Coronary Artery Disease
Heiko Schöder, Daniel H. Silverman, Roxana Campisi, Harold Karpman, Michael E. Phelps, Heinrich R. Schelbert, and Johannes Czernin
- 17** Adaptive Response in Patients Treated with ^{131}I
Myriam A. Monsieurs, Hubert M. Thierens, Anne M. Vral, Christophe Van De Wiele, Leo I. De Ridder, and Rudi A. Dierckx
- 23** A Multicenter Trial on Interobserver Reproducibility in Reporting on $^{99\text{m}}\text{Tc}$ -DMSA Planar Scintigraphy: A Belgian Survey
Carlos De Sadeleer, Marianne Tondeur, Koen Melis, Marie-Benedict Van Espen, Jean Verelst, Humphrey Ham, and Amy Piepsz
- 27** Transient Prolonged Stunning Induced by Dipyridamole and Shown on 1- and 24-Hour Poststress $^{99\text{m}}\text{Tc}$ -MIBI Gated SPECT
Dong Soo Lee, Jeong Seok Yeo, June-Key Chung, Myoung Mook Lee, and Myung Chul Lee

- 36** Imaging Serotonin and Dopamine Transporters with ^{123}I - β -CIT SPECT: Binding Kinetics and Effects of Normal Aging
Walter Pirker, Susanne Asenbaum, Martin Hauk, Susanne Kandlhofer, Johannes Tauscher, Mathäus Willeit, Alexander Neumeister, Nicole Praschak-Rieder, Peter Angelberger, and Thomas Brücke
- 45** Three Brain SPECT Region-of-Interest Templates in Elderly People: Normative Values, Hemispheric Asymmetries, and a Comparison of Single- and Multihead Cameras
Nancy J. Lobaugh, Curtis B. Caldwell, Sandra E. Black, Farrell S. Leibovitch, and Richard H. Swartz
- 57** Single SPECT Measures of Cerebral Cortical Perfusion Reflect Time-Index Estimation of Dementia Severity in Alzheimer's Disease
J. Wesson Ashford, Wei-Jen Shih, John Coupal, Raj Shetty, Andrew Schneider, Cathie Cool, Ayten Aleem, Vickie H. Kiefer, Marta S. Mendiondo, and Frederick A. Schmitt
- 65** Upregulation of Putaminal Dopamine D_2 Receptors in Early Parkinson's Disease: A Comparative PET Study with [^{11}C]Raclopride and [^{11}C]N-Methylspiperone
Valtteri Kaasinen, Hanna M. Ruottinen, Kjell Någren, Pertti Lehtikoinen, Vesa Oikonen, and Juha O. Rinne
- 71** Cardiac Sympathetic Denervation from the Early Stage of Parkinson's Disease: Clinical and Experimental Studies with Radiolabeled MIBG
Hisato Takatsu, Hiroshi Nishida, Hitoshi Matsuo, Sachiro Watanabe, Kenshi Nagashima, Hisayasu Wada, Toshiyuki Noda, Kazuhiko Nishigaki, and Hisayoshi Fujiwara
- 78** Evaluation of FDG Uptake by Renal Malignancies (Primary Tumor or Metastases) Using a Coincidence Detection γ Camera
Françoise Montravers, Dany Grahek, Khaldoun Kerrou, Nassima Younsi, Jean-Dominique Doublet, Bernard Gattegno, Jérôme Rossert, Maris-Alyette Costa de Beauregard, Philippe Thibault, and Jean-Noël Talbot
- 85** FDG PET Measurement of the Proliferative Potential of Non-Small Cell Lung Cancer
Kotaro Higashi, Yoshimichi Ueda, Masami Yagishita, Yukiko Arisaka, Aya Sakurai, Manabu Oguchi, Hiroyasu Seki, Yoshihiro Nambu, Hisao Tonami, and Itaru Yamamoto

- 93 Initial Experience with High-Dose Radioimmunotherapy of Metastatic Medullary Thyroid Cancer Using ^{131}I -MN-14 F(ab) $_2$ Anti-Carcinoembryonic Antigen MAb and AHSCR**
Malik E. Juweid, George Hajjar, Rhona Stein, Robert M. Sharkey, Thomas Herskovic, Lawrence C. Swayne, Samer Suleiman, Michael Pereira, Arnold D. Rubin, and David M. Goldenberg

- 104 Invited Commentary: Tumor-Targeted Radionuclide Therapy: Trial Design Driven by Patient Dosimetry**
Sally J. DeNardo

BRIEF COMMUNICATION

- 107 $^{99\text{m}}\text{Tc}$ -Labeled Vasoactive Intestinal Peptide Analog for Rapid Localization of Tumors in Humans**
Mathew L. Thakur, Carol S. Marcus, Sohail Saeed, Venkat Pallela, Craig Minami, Linda Diggles, H. Le Pham, Robert Ahdoot, and E. Anthony Kalinowski

BASIC SCIENCE INVESTIGATIONS

- 111 Java-Based Remote Viewing and Processing of Nuclear Medicine Images: Toward "the Imaging Department Without Walls"**
Piotr J. Slomka, Edward Elliott, and Albert A. Driedger
- 119 Invited Commentary: Java and Teleradiology**
Jerold W. Wallis
- 123 Characterization of Scatter and Penetration Using Monte Carlo Simulation in ^{131}I Imaging**
Yuni K. Dewaraja, Michael Ljungberg, and Kenneth F. Koral
- 131 Clinical Optimization of Pretargeted Radioimmunotherapy with Antibody-Streptavidin Conjugate and ^{90}Y -DOTA-Biotin**
Hazel B. Breitz, Paul L. Weiden, Paul L. Beaumier, Donald B. Axworthy, Chris Seiler, Fu-Min Su, Scott Graves, Kyle Bryan, and John M. Reno
- 141 Biodistribution, Dosimetry, and Safety of Myocardial Perfusion Imaging Agent $^{99\text{m}}\text{Tc}$ -NOET in Healthy Volunteers**
Gérald Vanzetto, Daniel Fagret, Roberto Pasqualini, Jean Paul Mathieu, Florence Chossat, and Jacques Machecourt
- 149 Re-Evaluation of Absorbed Fractions for Photons and Electrons in Spheres of Various Sizes**
Michael G. Stabin and Mark W. Konijnenberg

- 161 Imaging Vascular Thrombosis with $^{99\text{m}}\text{Tc}$ -Labeled Fibrin α -Chain Peptide**
Mathew L. Thakur, Venkat R. Pallela, P. Macke Consigny, Ponugoti S. Rao, Donka Vessileva-Belnikolovska, and Ron Shi

- 169 BRU59-21, a Second-Generation $^{99\text{m}}\text{Tc}$ -Labeled 2-Nitroimidazole for Imaging Hypoxia in Tumors**
Tricia Melo, Jill Duncan, James R. Ballinger, and A. Michael Rauth

- 177 Pharmacokinetics and Renal Handling of $^{99\text{m}}\text{Tc}$ -Labeled Peptides**
Frantisek Trejtnar, Milan Laznicek, Alice Laznickova, and Stephen J. Mather

- 183 Biologic Mechanisms of $^{89}\text{SrCl}_2$ Incorporation into Type I Collagen During Bone Mineralization**
Julie Davis, Neil D. Cook, and Richard J. Pither

SPECIAL CONTRIBUTION

- 189 S Values for Radionuclides Localized Within the Skeleton**
Lionel G. Bouchet, Wesley E. Bolch, Roger W. Howell, and Dandamudi V. Rao

DEPARTMENTS

- 213 Letters to the Editor**
- 27A Information for Authors**
- 30A Calendar**
- 36A Classified Advertising**
- 38A JNM Direct Response**

JNM ON LINE

January JNM Table of Contents and Abstracts
www.snm.org/about/oldjnmabs/jnm_abccurr.html

Newsline On Line
www.snm.org/about/news_order.html

Information for Authors
www.snm.org/about/jnm_authors.html